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**PACKING SYSTEMS
APS-4/SAPS**

»»» ABOUT THE TECHNOLOGY



The APS-4 automates the packing process by transporting briquettes from presses to the packing machine and shrink-wrapping them automatically. It can also include automatic palletising and is designed for scalability, allowing future upgrades.



The SAPS requires manual loading of briquettes and packs them into selected thickness shrink film. It features a two-sided seam system for better dust resistance and can be used for a variety of products such as bottles and sugar packets.



Both systems aim to enhance efficiency and versatility in the packing process. SAPS offers manual control and is suitable for various product types, while APS-4 provides a fully automated solution, reducing manual labor making consistent packaging quality.



Either SAPS and APS-4 can be tailored to meet specific client needs. While SAPS can be optionally equipped with a motorized conveyor for improved ergonomics, APS-4 can be customized for the desired level of automation and future expansion.

Nature  **Business**

Eco-Friendly Solution & Wallet-Wise Choice

TECHNICAL HIGHLIGHTS

Basic information

The APS-4 and SAPS packing systems offer versatile solutions for efficiently packaging various materials, including briquettes, bottles, sugar packets, and general products. Designed for different levels of automation, these systems enhance the packing process by improving storage, transport, and resale possibilities.

The APS-4 and SAPS packing systems are primed and ready for action, requiring only a power source to unleash their full potential. With versatile capabilities and robust designs, these machines stand poised to efficiently package a wide array of materials, from briquettes and bottles to sugar packets and general products.

Ambient operating temperature range of the vehicle spans 5 – 40°C. Machine should be installed indoors, protected from the elements (rain, sleet, snow).

Each system is designed, built and tested in Ukmergė, Lithuania by UMP Technika. Not only do we manufacture, but we also use our machines - all products of UMP Technika are also used daily in our sister woodworking companies.

Hydraulics

Hydraulic Operation:

SAPS: Primarily relies on electric motors for its semi-automatic functions, with minimal use of hydraulics. Any hydraulic components are likely auxiliary, such as for tensioning or adjusting the film feed mechanism.

APS-4: Utilizes more extensive hydraulic systems for automation, particularly in automated alignment, placement, and palletising operations. Hydraulics provide the necessary force and precision for these tasks.

Hydraulic Efficiency:

Both systems benefit from the high force and precise control offered by hydraulic components. In the APS-4, this is crucial for handling different packaging materials and ensuring consistent quality, while the SAPS uses hydraulics minimally due to its semi-automatic nature.

Maintenance:

Regular maintenance of hydraulic systems includes checking fluid levels, inspecting hoses and connections for leaks, and ensuring smooth operation of actuators. For SAPS, this is minimal, whereas APS-4 requires more frequent and thorough maintenance due to its extensive use of hydraulics.

Specific Differences:

SAPS:

Limited hydraulic use, primarily for auxiliary functions.

Easier maintenance due to fewer hydraulic components.

Focus on manual loading and semi-automatic operations with electric motors handling most tasks.

APS-4:

Extensive use of hydraulics for fully automated operations.

Hydraulics are critical for automated alignment, packing, and palletising.

Requires more comprehensive maintenance to ensure high productivity and reliability.

Electricals

Power Requirements:

Both systems require a stable power source to operate effectively. They are typically designed to work with standard industrial power supplies, such as **380V/50-60Hz** for three-phase systems.

TECHNICAL HIGHLIGHTS

Control Systems:

Electrical control systems are integral to both machines, managing the sequencing and coordination of various packing functions. These systems may include programmable logic controllers (PLCs), sensors, switches, and human-machine interfaces (HMIs) for operator control and monitoring.

Material infeed

Conveyor Systems:

Conveyor systems can be integrated with both SAPS and APS-4 to automate the material infeed process. Conveyor belts or rollers transport materials from upstream production equipment, such as briquette presses or manufacturing lines, directly into the packing machines. This automation streamlines the workflow and reduces manual handling.

Specific Material Infeed Options:

SAPS:

The SAPS primarily relies on manual loading, with operators placing briquettes or other products into the packing machine manually.

Optionally, a motorized conveyor can be added to facilitate material infeed, returning packages back to the operator for better ergonomics.

APS-4:

The APS-4 can support various material infeed options, including manual loading, conveyor systems, or custom loading stations.

Automated alignment and placement features improve production efficiency, allowing materials to be automatically fed into the packing machine with precision and accuracy.

Manufacturer's warranty

24 month / 1000 work hour warranty ¹

Service, materials and parts provided by the seller.

Servicing done following the manual & service plan.

Customisation

- Can be purchased with motorised conveyor
- Can be built with expansion in mind
- Installation and training

SPECIFICATIONS:	APS-4	SAPS
OPERATION TYPE	Fully Automatic	Semi-Automatic
MATERIAL INFEED	Conveyor Systems	Manual Loading
PACKAGING SPEED	Up to 5 bags of briquettes per minute	Variable, depending on operator capabilities
INSTALLED POWER	Depends on configuration	22 kW
WIDTH:	Varies depending on configuration	1500mm
LENGTH:		3500mm
WEIGHT:		700kg
HEIGHT:		2100mm
WARRANTY:	2 years / 1000 workhours	

¹ Which ever comes first, either 24 months or 1000 work hours.

»»» **TOGETHER.**

EVERY STEP OF THE WAY «««

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